

ELECTRONIC TUBE REFERENCE

6JK8

Voltage - Dual Triode (dissimilar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Dissimilar twin triode for FM tuner service, combining a frame-grid RF amplifier section with a second triode used for oscillator-mixer frequency conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9AD	BASE PINS	9
NOMINAL HEATER	6.3 V / 400 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9AD - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN3 – K	A	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN7 – G2	A	G2 – Screen Grid	CONNECTED
PIN8 – P	A	P – Plate (Anode)	CONNECTED
PIN9 – G3	A	G3 – Suppressor Grid	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	8000 Ω
TRANSCONDUCTANCE	0.0068 S
AMPLIFICATION FACTOR	55
MAXIMUM PLATE VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Published maximum ratings and characteristics promoted semantically from the approved source.</i>	

SECTION2 Triode	
PLATE RESISTANCE	5400 Ω
TRANSCONDUCTANCE	0.013 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Published maximum ratings and characteristics promoted semantically from the approved source.</i>	

The 6JK8 is a dissimilar dual triode specifically designed for FM tuners, with separate oscillator and RF-amplifier sections.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	8000 ohm	—
Transconductance	6800 μ S	—
Amplification Factor	55	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	165 V	—
Maximum Plate Dissipation	1 W	—
Maximum Cathode Current	22 mA	—
Plate Voltage	100 V	Oscillator section

1950 SYLVANIA

Section 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	5400 ohm	—
Transconductance	13000 μ S	—
Amplification Factor	70	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	200 V	—
Maximum Plate Dissipation	2 W	—
Maximum Cathode Current	22 mA	—
Plate Voltage	135 V	RF amplifier section

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	10 mA	RF amplifier section



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	5.3 mA	Section1

1961 TUNG SOL

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	135 V	Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	10 mA	Section2



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1965 WESTINGHOUSE DATA BOOK

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	400 mA	—
Grid-Plate Capacitance	1.4 pF	—
Input Capacitance	3 pF	—
Output Capacitance	1 pF	—
Plate Resistance	8000 ohm	—
Transconductance	6800 uS	—
Amplification Factor	55 ratio	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	OscillatorMixer
Grid Voltage	-1 V	OscillatorMixer
Plate Current	5.3 mA	OscillatorMixer

1965 WESTINGHOUSE DATA BOOK

Section 2 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	0.05 pF	—
Input Capacitance	5 pF	—
Output Capacitance	4 pF	—
Plate Resistance	5400 ohm	—
Transconductance	13000 uS	—
Amplification Factor	70 ratio	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	135 V	RFAmplifier
Grid Voltage	-1.2 V	RFAmplifier
Plate Current	10 mA	RFAmplifier



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 2 of 4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	OscillatorSection
Grid voltage	-1 V	OscillatorSection
Plate current	5.3 mA	OscillatorSection

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	RFAmplifierSection
Grid voltage	-1.2 V	RFAmplifierSection
Plate current	10 mA	RFAmplifierSection

TUBE TINKER

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and their source documents.

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